

Temperature Standard Miniature Series

TEMP100, TEMP101, TEMP110 TEMPERATURE RECORDERS

Applications

- Temp100
- Temp101
- Temp110
- TempRetriever
- Shipping
- Museums
- R&D
- Warehouses
- HVAC



The MadgeTech line of standard temperature data loggers allows for a myriad of application and budgets at hand. They are all specified similarly in temperature, range, accuracy, and resolution but differ in download speeds, memory size, and extra features such as alarm and pushbutton start & stop.

Our standard line of portable temperature recorders excels in dry applications such as shipping, museums, R&D, warehouses, and HVAC. The LED alarm indicator makes it easy to know when pre-set temperature limits have been exceeded.

The Temp100, Temp101, and the Temp110 share the powerful yet intuitive MadgeTech software. When starting these devices the user can set the start time, sample rate, alarm limits, and an ID field for keeping track of the recorders.

The offloaded data can be viewed in degrees of Celsius, Fahrenheit, Kelvin, and Rankine. The software automatically calculates Mean Kinetic Temperature, and other useful temperature statistics. To see the required analysis, is just one click to load the data into MS Excel®.

Specifications†

Part Number	Temp100	Temp101
Sensor	Internal semiconductor	Internal semiconductor
Temperature Range	-40 to +80°C	-40 to +80°C
Temperature Resolution	0.1°C	0.1°C
Calibrated Accuracy	±0.5°C	±0.5°C
Memory	32,767	32,767
Sample Rate	2 seconds up to 12 hours	2 seconds up to 12 hours
Alarm	Yes	Yes
LED Indicator	Red & Green	Red
Pushbutton Start	Yes	No
Required Interface Package	IFC110	IFC110
Baud Rate	2,400	2,400
Typical Battery Life	1 year	1 year
Operating Environment	-40 to +80°C 0 to 95%RH non-condensing	-40 to +80°C 0 to 95%RH non-condensing
Material	ABS plastic	ABS plastic
Dimensions	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
Single/Multi-Use	Multi-use	Multi-use
CE Approved	Yes	Yes

† Specifications subject to limits or conditions. Consult product data sheet.

TEMPRETRIEVER TEMPERATURE RECORDER

Features

Temp100

- External pushbutton to start & stop datalogging
- LED alarm indication
- 2,400 baud offload rate
- 1 year typical battery life

Temp101

- LED alarm indication
- 2,400 baud offload rate
- 1 year typical battery life

Temp110

- 57,600 baud offload speed (24X faster)
- 10 year typical battery life

TempRetriever

- Low Cost
- User-Friendly
- LED alarm indication
- Pushbutton start



The TempRetriever's specifications are overqualified for its budget-minded price. The accuracy of $\pm 0.5^{\circ}\text{C}$ and 0.1°C resolution coupled with 16,383 readings of non-volatile memory, 1-year battery life, and LED alarm indication makes this a perfect temperature recorder when keeping costs down is paramount. Industries such as education, research, and perishable goods transport will all benefit from the remarkable value this little TempRetriever represents.

Specifications †

Part Number	Temp110	TempRetriever
Sensor	Internal semiconductor	Internal semiconductor
Temperature Range	-40 to +80°C	-40 to +80°C
Temperature Resolution	0.1°C	0.1°C
Calibrated Accuracy	$\pm 0.5^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
Memory	32,767	16,383
Sample Rate	2 seconds up to 12 hours	2 seconds up to 12 hours
Alarm	No	Yes
LED Indicator	Red	Red & Green
Pushbutton Start	No	Yes
Required Interface Package	IFC110	IFC110
Baud Rate	57,600	38,400
Typical Battery Life	10 years	1 year
Operating Environment	-40 to +80°C 0 to 95%RH non-condensing	-40 to +80°C 0 to 95%RH non-condensing
Material	ABS plastic	ABS plastic
Dimensions	1.7" x 2.3" x 0.8" (44mm x 59mm x 21mm)	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
Single/Multi-Use	Multi-use	Multi-use
CE Approved	Yes	Pending

Ordering Information

Product ID	Description
Temp100	Temperature Recorder with Pushbutton Start/Stop
Temp101	Temperature Recorder
Temp110	Temperature Recorder with 10 year battery life
TempRetriever	Temperature Recorder with Pushbutton Start
Accessories	Description
IFC110	Includes software, manual and 9-pin computer interface cable
NIST	N.I.S.T. Calibration Certificate
LTC-7PN	3.6 V Lithium replacement battery for Temp100, Temp101, Temp110 and TempRetriever

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